

OVERVIEW OF SYLLABUS AND SKILLS

S. No.	Chapter Name	Experiments and Activities	Skills	Values	Cross-curricular Links
1.	Force and Pressure <ul style="list-style-type: none"> Force – A push or Pull Exploring Force Effects of Force Types of Forces Pressure Pressure Exerted by Liquids Pressure Exerted by Gases Atmospheric Pressure 	Experiments <ul style="list-style-type: none"> To verify the relationship between pressure with force and area of contact To show that liquid pressure increases with depth To verify the effect of atmospheric pressure Activity: <ul style="list-style-type: none"> Push or pull Independent Reading: Characteristics of Force, Forces are due to an Interaction Activity: <ul style="list-style-type: none"> Play Dough Group presentation on types of forces On static electricity by rubbing a comb and attracting paper pieces Discussion on: Properties of liquid pressure Activity (Pair work): <ul style="list-style-type: none"> Writing key words and sharing with other pair 	<ul style="list-style-type: none"> Recalling Describing Discussing Creating Interpreting Inferring Applying Presenting information Drawing conclusion 	<ul style="list-style-type: none"> Respect for people who pull hand-pulled rickshaws Appreciate the development of space suits 	<ul style="list-style-type: none"> Maths: Calculation of Pressure English: Vocabulary building on Types of Forces
2.	Friction <ul style="list-style-type: none"> Force of Friction Factors Affecting Friction Types of Friction Friction: A Friend or a Foe Fluid Friction 	Experiment <ul style="list-style-type: none"> To study that friction depends on the nature of contact surface To prove that rolling friction is less than sliding friction Activity: <ul style="list-style-type: none"> Demonstration: Spring balance Presentation on Types of friction Open book assignment on advantages and disadvantages of friction Reading Comprehension (Increasing friction, Reducing friction) 	<ul style="list-style-type: none"> Recalling Describing Discussing Creating Interpreting Inferring Applying Presenting information Drawing conclusion 	<ul style="list-style-type: none"> Appreciate the development of a variety of shoes according to the types of sports Role of friction in our daily life 	
S. No.	Chapter Name	Experiments and Activities	Skills	Values	Cross-curricular Links
1.	Sound <ul style="list-style-type: none"> Sound is Produced by a Vibrating Body Musical Instruments Sound Produced by Humans Sound Needs a Medium for Propagation Speed of Sound We Hear Sound Through Our Ears Characteristics of Sound Audible and Inaudible Sounds Noise and Music Noise Pollution Hearing Impairment 	Experiments <ul style="list-style-type: none"> To prove that sound is a wave and it is produced due to vibration of objects To prove that sound needs a medium for propagation Activity <ul style="list-style-type: none"> Observation: Slinky to learn about vibrations Discussion on: Different types of musical instruments, how they work, their classification Open book assignment Audible and Inaudible sounds Activity: <ul style="list-style-type: none"> Reading Comprehension: Audible and Inaudible sounds Slogan writing: Noise Pollution 	<ul style="list-style-type: none"> Recalling Describing Discussing Creating Interpreting Inferring Applying Presenting information Drawing conclusion 	<ul style="list-style-type: none"> Appreciate the role of Indian Sign language Research and Training Centre Importance of Cochlear implant for hearing impaired 	<ul style="list-style-type: none"> Art and Music- Types of musical instruments Biology- Structure of the Ear